TET MIANIE C

Application No. 10/518.422
Amendment Date February 3, 2906
Response to Office Action of October 3, 2005

PATENT Docket Number: 2007USWO

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1-19. \ (Canceled).

- 20. (New) A method of reducing the loss of active disinfectant from a floor disinfecting composition comprising:
- a) applying to a cleaning mop an additive selected from the group consisting of a polydialkyl diallyl ammonium salt, copolymers of dialkyl diallyl ammonium salts, a quaternary ammonium compound having the formula:

and the derivatives and mixtures thereof; and thereafter

- b) applying to the cleaning mop a floor disinfecting composition comprising:
- i) an antimicrobial agent selected from the group consisting of aldehydes, aldehydes derivatives, phenols, phenol derivatives, amide derivatives, amine derivatives, quaternary ammonium compounds having the formula:

$$R^1$$
 R^2
 R^4
 R^3
 R^4

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wherein the antimicrobial agent present in the floor disinfecting composition is not adsorbed onto the cleaning mop as a result of the first treating with the additive.

- 21. (New) The method of claim 20, wherein the antimicrobial agent is present from about 5 to about 30 wt. %, and the additive is present from about 5 to about 50 wt. %.
- 22. (New) The method of claim 20, wherein the antimicrobial agent is selected from the group consisting of formaldehyde, glutaraldehyde, glyoxal, dimethyl didecyl ammonium compounds, dimethyl dioctyl ammonium compounds, benzalkonium ammonium compounds, alkylamines having the formula:

R¹⁰-NH-(CH₂)₃NH₂,

alkylamines having the formula:

R¹⁰-N-[(CH₂)₃NH₂]₂,

where R¹⁰ is a C₈₋₁₈ alkyl group, and

the reaction product of glutarnic acid with alkyl propylenediamine known commercially as Glucoprotamin®.

- 23. (New) The method of claim 20, the floor disinfecting composition further comprising other additives selected from the group consisting of surfactants, flow controllers, complexing acids, acids, organic solvents, solubilizers, dyes, perfumes, and mixtures thereof.
- 24. (New) The method of claim 20, wherein the cleaning mop is a cloth, rag, nonwoven, sponge, or brush material.
- 25. (New) The method of claim 20, wherein the cleaning mop is cotton, or microfiber.
- 26. (New) The method of claim 20, wherein the additive is diluted.
- 27. (New) The method of claim 20, wherein the additive is undiluted.

aqueous, dilute composition.

- 29. (New) The method of claim 20, wherein the cleaning mop is allowed to dry after the additive is applied but prior to applying the floor disinfecting composition.
- 30. (New) A method of disinfecting a floor comprising:
- a) applying to a cleaning mop an additive selected from the group consisting of a polydialkyl diallyl ammonium salt, copolymers of dialkyl diallyl ammonium salts, a quaternary ammonium compound having the formula:

and the derivatives and mixtures thereof; and thereafter

- b) applying to the cleaning mop a floor disinfecting composition comprising:
- i) an antimicrobial agent selected from the group consisting of aldehydes, aldehydes derivatives, phenol s, phenol derivatives, amides, amide derivatives, amines, amine derivatives, quaternary ammonium compounds having the formula:

$$\begin{array}{c|c}
R^2 \\
N^+ \longrightarrow R^3 \quad A^- \\
R^4
\end{array}$$

wherein the antimicrobial agent present in the floor disinfecting composition is not adsorbed onto the cleaning mop as a result of the first treating with the additive; and

c) applying the disinfecting composition to a floor using the cleaning mop.

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- 31. (New) The method of claim 30, wherein the antimicrobial agent is present from about 5 to about 30 wt. %, and the additive is present from about 5 to about 50 wt. %.
- 32. (New) The method of claim 30, wherein the antimicrobial agent is selected from the group consisting of formaldehyde, glutaraldehyde, glyoxal, dimethyl didecyl ammonium compounds, dimethyl dioctyl ammonium compounds, benzalkonium ammonium compounds, alkylamines having the formula:

alkylamines having the formula:

where R¹⁰ is a C₈₋₁₈ alkyl group, and

the reaction product of glutamic acid with alkyl propylenediamine known commercially as Glucoprotamin®.

- 33. (New) The method of claim 30, the floor disinfecting composition further comprising other additives selected from the group consisting of surfactants, flow controllers, complexing acids, acids, organic solvents, solubilizers, dyes, perfumes, and mixtures thereof.
- 34. (New) The method of claim 30, wherein the cleaning mop is a cloth, rag, nonwoven, sponge, or brush material.
- 35. (New) The method of claim 30, wherein the cleaning mop is cotton, or microfiber.
- 36. (New) The method of claim 30, wherein the additive is diluted.
- 37. (New) The method of claim 30, wherein the additive is undiluted.
- 38. (New) The method of claim 30, wherein the floor disinfecting composition is an aqueous, dilute composition.

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39. (New) The method of claim 30, wherein the cleaning mop is allowed to dry after the additive is applied but prior to applying the floor disinfecting composition.

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